BALDOR
MOTORS AND DRIVES

Integral Horsepower
AC インダクションモータ

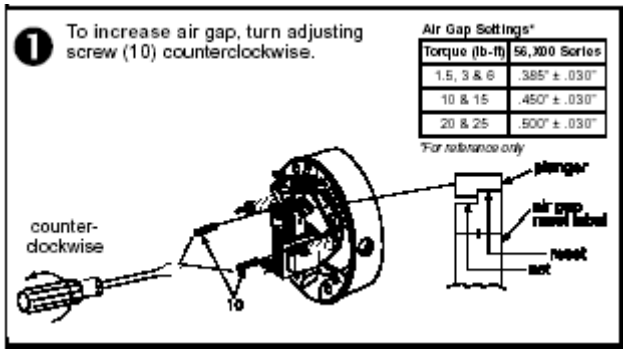
付属ブレーキ取扱説明書

4/03 MN400-BKJ

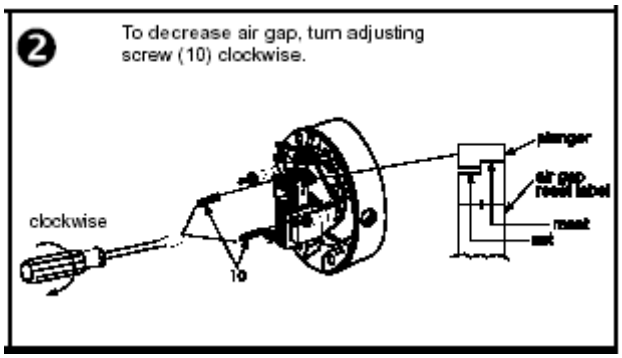
1. AIR GAP ADJUSTMENT　エアギャップ調整

フリクションディスクが磨耗すると、エアギャップが増えます。プランジャーがリセットポジションになるまで、エアギャップを調整する必要があります。

①、エアギャップを増やすには、調整ねじ（10）を反時計回りに回します。

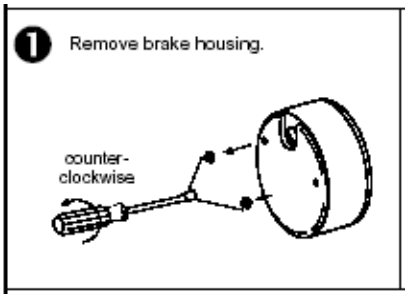


②、エアギャップを減らすには、調整ねじ（10）を時計回りに回してください。

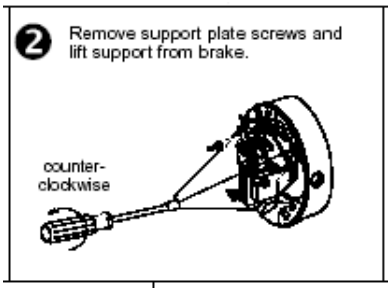


2.FRICTION DISC REPLACEMENT　摩擦板の交換

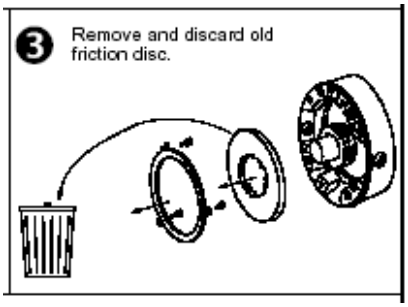
①、ブレーキハウジングを取り除いて下さい。



②、ブレーキからサポートプレートネジとリフトサポートを取り除きます。

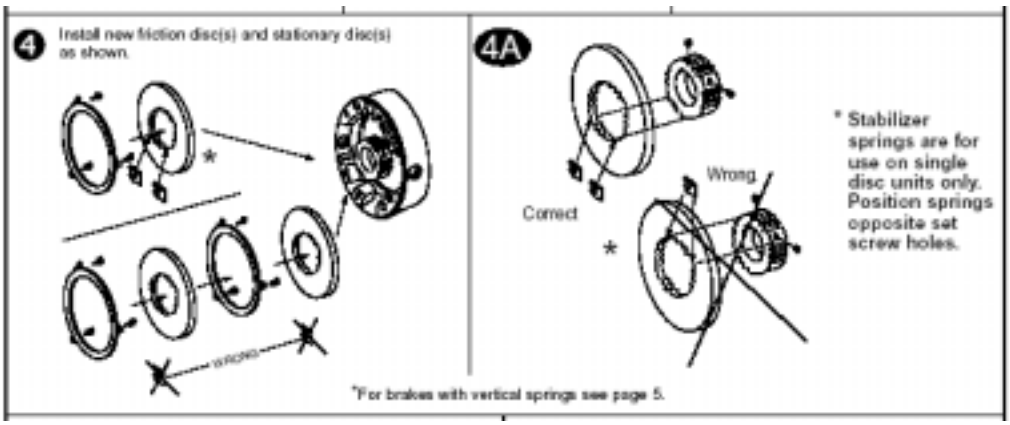


③、古いフリクションディスクは取り除き破棄してください。

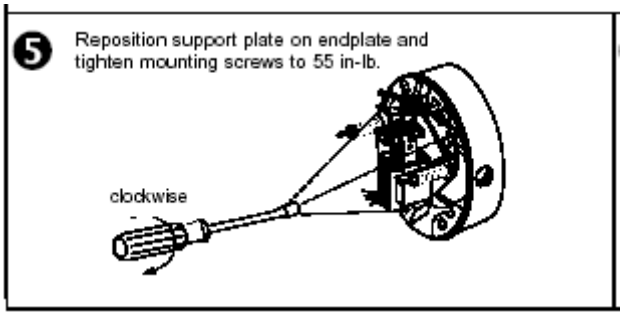


④、図に示されている様に、新しい摩擦板と固定ディスクを取り付けてください。

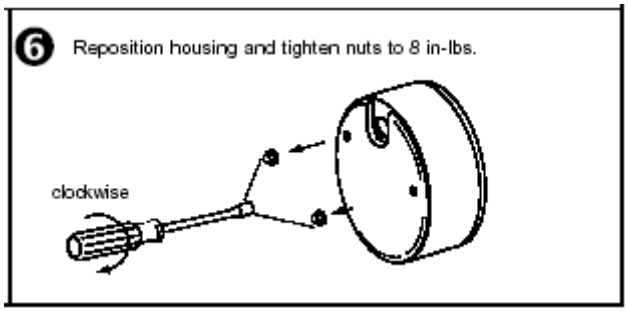
４－A、　安定用スプリングは、ディスクユニットが一つの場合の時のみ用います。
　　ポジションスプリングは、ねじ穴の反対側に取り付けます。



⑤、エンドプレートの上に、サポートプレートを置き直し、55in-lb のトルクでしっかりと締め付け固定します。



⑥、再びハウジングを配置して 8in-lbs のトルクでナットを締め付けてください。



3.Torque Adjustment トルク調整

ブレーキは、出荷時公称定格静止トルクすなわち最大トルクに設定されています。トルクは停止時間が 2 秒以内の範囲で、50%程度まで低減できます。

1-1/2lb-ft のブレーキはトルク低減出来ません。

トルク減少の為には､図６の調整ナット(!!を両方均等にトルクが減少するところまで反時計方向に回してください。
トルク減少の許容量は TABLE A を参照してください。

TABLE A

公称静止トルク (lb-ft)	オリジナルスプリング高さ (inches)	最大回転（反時計回り）	1回転に対するトルク縮小率
1-1/2	1-9/16	-	-
3	1-1/2	5-1/2	9%
6	1-1/2		
10	1-9/16		
15	1-9/16		
20	1-9/16		
25	1-1/2		

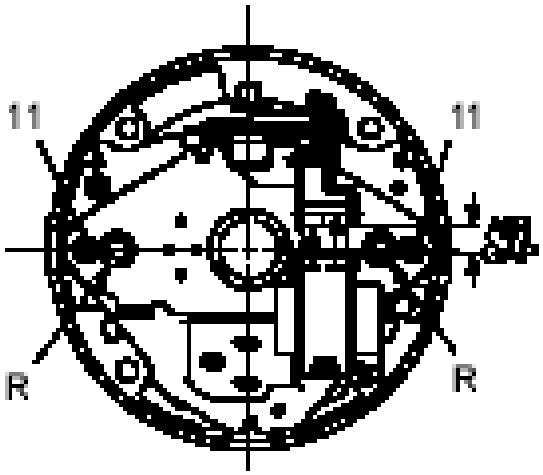
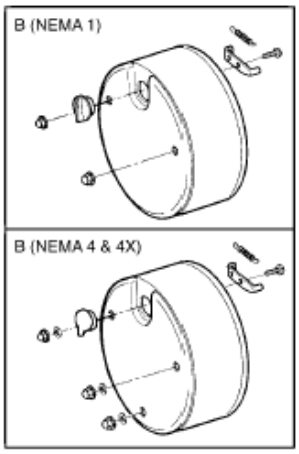


Figure 6

4.. 部品リスト



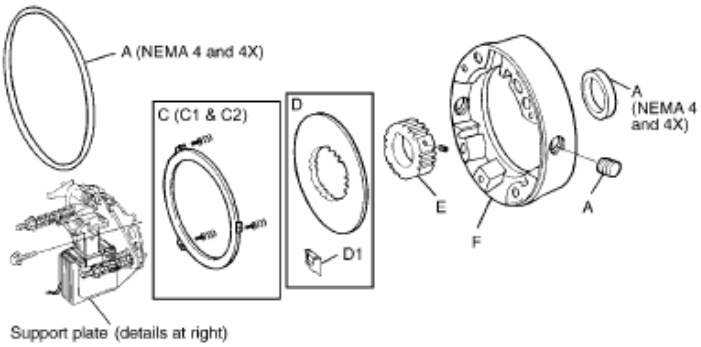
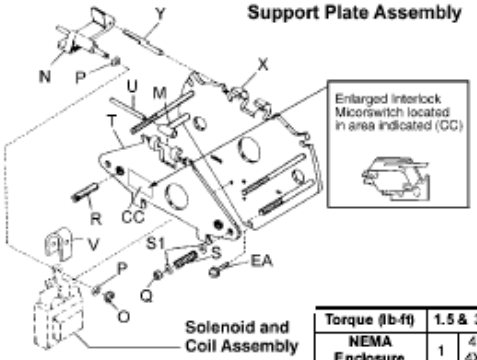


TABLE 1
Components of Standard AC or DC Brake

Item	Description		Part Number↓	Torque (lb-ft)	1.5 and 3			6			10			15			20 and 25		
				NEMA Enclosure	1	4	4X	1	4	4X	1	4	4X	1	4	4X	1	4	4X
				Brake Model Number→	1-056-001-00 & -011-00	1-056-002-00 & -012-00	1-056-004-00 & 014-00	1-056-021-00	1-056-022-00	1-056-024-00	1-056-031-00	1-056-032-00	1-056-034-00	1-056-041-00	1-056-042-00	1-056-044-00	1-056-051-00 & -061-00	1-056-052-00 & -062-00	1-056-054-00 & -064-00
A	Hardware kit - NEMA 1		5-66-1001-00		1			1			1			1			1		
	Hardware kit - NEMA 4		5-66-1002-00			1			1			1			1			1	
	Hardware kit - NEMA 4X		5-66-1003-00				1			1			1			1			1
A1	Plug/Gasket kit	— NEMA 4	5-66-0532-00			1			1			1			1			1	
	** Close couple	— NEMA 4X	5-66-0533-00				1			1			1			1			1
		— NEMA 4 3 disc	5-66-0534-00																
		— NEMA 4X 3 disc	5-66-0535-00																
B	Housing & release knob kit — NEMA 1		5-66-8756-00		1			1			1			1			1		
	Housing & release knob kit — NEMA 4		5-66-8757-00			1			1			1			1			1	
	Housing & release knob kit — NEMA 4X		5-66-8758-00				1			1			1			1			1
C	Stationary disc kit (1 disc universal 3 disc horizontal)		5-66-8354-00		1	1	1	1	1	1							3	3	3
C1	Stationary disc kit (2 disc universal)		5-66-8355-00								1	1	1	1	1	1			
C2	Stationary disc kit (3 disc universal)		5-66-8356-00														1	1	1
Not Shown	Vertical Spring Kit (3 disc)		5-63-0525-00														1	1	1
D	Friction disc kit		5-66-8462-00		1 2	1 2	1 2	1 2	1 2	1 2	2 *	2 *	2 *	2 *	2 *	2 *	3 *	3 *	3 *
D1	Stabilizing spring		8-161-505-00																
DP	Disc pack kit — 1 disc		5-66-8601-00		1	1	1	1	1	1									
	Disc pack kit — 2 disc		5-66-8602-00								1	1	1	1	1	1			
	Disc pack kit — 3 disc		5-66-8603-00														1	1	1
E	Hub and set screw assembly 1 & 2 disc (NEMA 1)	5/8 bore	5-16-5150-00-01B		1			1			1			1					
		7/8 bore	5-16-5150-00-01D		1			1			1			1					
		1-1/8 bore	5-16-5150-00-01E		1			1			1			1					
	Hub and set screw assembly 1 disc (NEMA 4 & 4X)	5/8 bore	5-16-5151-00-01B			1	1		1	1									
		7/8 bore	5-16-5151-00-01D			1	1		1	1									
		1-1/8 bore	5-16-5151-00-01E			1	1		1	1									
	Hub and set screw assembly 3 disc (NEMA 1) and 2 & 3 disc (NEMA 4 & 4X)	5/8 bore	5-16-5153-00-01B								1	1	1		1	1	1	1	1
		7/8 bore	5-16-5153-00-01D								1	1	1		1	1	1	1	1
		1-1/8 bore	5-16-5153-00-01E								1	1	1		1	1	1	1	1
F	Endplate and stationary disc assembly	1 & 2 disc (NEMA 1)	5-02-5031-00		1			1			1			1					
		3 disc (NEMA 1)	5-02-5032-00														1		
		1 disc (NEMA 4)	5-02-5033-00			1			1										
		2 & 3 disc (NEMA 4)	5-02-5034-00									1			1			1	
		1 disc (NEMA 4X)	5-02-5037-00				1			1									
		2 & 3 disc (NEMA 4X)	5-02-5038-00										1			1			1

Support Plate Assembly



Solenoid and Coil Assembly

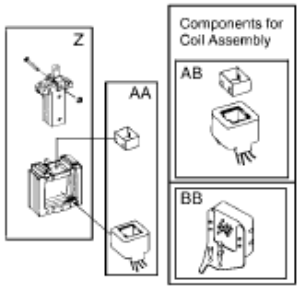


TABLE 2
Components of Support Plate and Coil Assembly

Item	Description		Part Number↓	Torque (lb-ft)	1.5 & 3		6 & 10		15 &20		25	
				NEMA Enclosure	1	4 4X	1	4 4X	1	4 4X	1	4 4X
				Support Plate Assy. (Items M through Y and EA)→	5-42-5561-00	5-42-5562-00	5-42-5563-00	5-42-5564-00	5-42-5565-00	5-42-5566-00	5-42-5565-00	5-42-5566-00
M	Bearing		8-006-501-00		1	1	1	1	1	1	1	1
N	Solenoid lever		8-008-504-01		1	1	1	1	1	1	1	1
O	Retaining ring		9-03-0057-00		1	1	1	1	1	1	1	1
P	Spacer		9-45-0168-00		2	2	2	2	2	2	2	2
Q	Torque adjustment nut		9-40-3928-00		2	2	2	2	2	2	2	2
R	Wear adjustment screw		8-100-507-00		2	2	2	2	2	2	2	2
S	Pressure spring		9-70-1215-00		2	2						
	Pressure spring		9-70-1523-00				2	2				
	Pressure spring		9-70-1524-00						2	2	2	2
S1	Spring washer		9-46-0010-00				4	4	4	4	4	4
T	Lever arm and stop nut assy.		5-17-5011-00		1	1	1	1	1	1	1	1
U	Bearing pin		9-29-4826-00		1	1	1	1	1	1	1	1
V	Plunger stop		8-094-503-00		1	1	1	1	1	1	1	1
X	Support plate and spring stud assembly (2 housing studs)		5-26-5019-00		1		1		1		1	
	Support plate and spring stud assembly (3 housing studs)		5-26-5020-00			1		1		1		1
Y	Pivot pin		9-29-4836-00		1	1	1	1	1	1	1	1
EA	Mounting screws		9-25-9013-00		3	3	3	3	3	3	3	3
AC Brakes												
Z	No. 4 solenoid kit		5-66-5042-00		1		1		1		1	
AA	No. 4 coil kit 60 Hz	115-230 Vac	5-66-6407-33		1							
		230/460 Vac	5-66-6409-33		1							
		115 Vac	5-66-6401-33		1							
		230 Vac	5-66-6402-33		1							
		460 Vac	5-66-6404-33		1							
		575 Vac	5-66-6405-33		1							
	No. K4 coil kit 60 Hz	115-230 Vac	5-66-6457-33				1					
		230/460 Vac	5-66-6459-33				1					
		115 Vac	5-66-6451-33				1					
		230 Vac	5-66-6452-33				1					
		460 Vac	5-66-6454-33				1					
		575 Vac	5-66-6455-33				1					
	No. K4 + coil kit 60 Hz	115-230 Vac	5-66-6407-23						1			
		230/460 Vac	5-66-6409-23						1			
		115 Vac	5-66-6401-23						1			
		230 Vac	5-66-6402-23						1			
		460 Vac	5-66-6404-23						1			
		575 Vac	5-66-6405-23						1			
	No. M4 + coil kit 60 Hz	115-230 Vac	5-66-6457-23								1	
		230/460 Vac	5-66-6459-23								1	
		115 Vac	5-66-6451-23								1	
		230 Vac	5-66-6452-23								1	
		460 Vac	5-66-6454-23								1	
		575 Vac	5-66-6455-23								1	
CC	Brake release interlock switch (optional)		5-57-5526-00		1		1		1		1	
DC Brakes												
AB	No. 4 + coil assembly	115 Vdc	5-96-6416-43		1							
		230 Vdc	5-96-6417-43		1							
	No. K4 + coil assembly	115 Vdc	5-96-6416-23				1					
		230 Vdc	5-96-6417-23				1					
	No. M4 + coil assembly	115 Vdc	5-96-6466-23						1			
		230 Vdc	5-96-6467-23						1			
	No. P4 + coil assembly	115 Vdc	5-96-6446-43								1	
		230 Vdc	5-96-6447-43								1	
BB	Electronic DC switch kit	24/28 Vdc	5-57-5712-15									
		115 Vdc	5-57-5716-15									
		230 Vdc	5-57-5717-15									

TABLE 3
Contents of Kits and Assemblies

Item	Kit Description
A	Hardware kit – NEMA 1 (5-66-1001-00) 2 – Housing acorn nuts 2 – Conduit plugs
	Hardware kit – NEMA 4 (5-66-1002-00) Hardware kit – NEMA 4X (5-66-1003-00) 3 – Housing nuts 3 – Housing nut gaskets 1 – Endplate oil seal 2 – Endplate hole plugs 2 – Housing to endplate "U" gasket 2 – Endplate conduit pipe plugs
B	Housing & release knob kit (5-66-875X-00) 1 – Housing and release knob assembly 2 or 3 – Housing nuts 3 – Housing nut gasket (NEMA 4 and 4X)
C	Stationary disc kit (5-66-8355-00) 1 – Stationary disc
C1	Stationary disc kit (5-66-8354-00) 2 – Stationary discs with springs
C2	Stationary disc kit (5-66-8356-00) 3 – Stationary discs with springs
D	Friction disc kit (5-66-8462-00) 1 – Friction disc 2 – Stabilizing springs (for 1-1/2 lb-ft brake use only)
DP	Disc pack kit (5-66-860X-00) 1, 2 or 3 – Friction disc(s) 1, 2 or 3 – Stationary disc(s) 2 – Stabilizing springs (for 1-1/2 lb-ft brake use only) 3, 6 or 9 – Stationary disc separator springs
E	Hub and screw assembly – all types, all bores (5-16-515X-00) 1 – Brake hub 2 – Set screws
Z	No. 4 solenoid kit (5-66-5042-00) 1 – Plunger 1 – Solenoid link 1 – Frame 1 – Solenoid link cap screw 1 – Solenoid link nut 3 – Solenoid mounting screws
AA AB	No. 4 AC coil kit (5-66-64-XX-X3) and DC coil assembly (5-96-64XX-X3) Coil / Top Plunger guide / Wire nut
BB	DC switch kit (5-57-571X-15) 1 – Electronic switch 1 – Mounting bracket 3 – Bracket mounting screws 4 – Switch moutning screws 4 – Nuts 4 – Lock washers 5 – Crimp connectors
CC	Brake release interlock switch (5-57-5526-00) 1 – Microswitch 1 – Mounting bracket 2 – Bracket mounting screws 2 – Switch mounting screws 2 – Lock washers 2 – Nuts 2 – Lead wire assembly